

l23_realset2 (TMMm- nokZk5Wf8UVUNigLPQRBuGR1xL6euX8)

October 27, 2020

Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $c4_realset2 : \iota$ be given. Let $k6_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k1_funct_7 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $np_1 : \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k4_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$np_2 = k2_tarski\ k1_xboole_0\ np_1 \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(X0 \neq X1) \Rightarrow (k4_xboole_0\ (k2_tarski\ X0\ X1) \\ (k1_tarski\ X1) = k1_tarski\ X0) \tag{2}$$

Assume the following.

$$\neg v1_xboole_0\ np_2 \tag{3}$$

Assume the following.

$$\neg v1_xboole_0\ np_1 \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.k6_subset_1\ X0\ X1 = k4_xboole_0\ X0\ X1 \tag{5}$$

Assume the following.

$$k6_numbers = k1_xboole_0 \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1_xboole_0\ X0) \wedge (m1_subset_1\ X1\ X0)) \Rightarrow \\ (k6_domain_1\ X0\ X1 = k1_tarski\ X1) \tag{7}$$

Assume the following.

$$k1_funct_7\ np_1\ np_2 = np_1 \tag{8}$$

Assume the following.

$$k1_funct_7\ k6_numbers\ np_2 = k6_numbers \quad (9)$$

Assume the following.

$$v1_xboole_0\ k1_xboole_0 \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.m1_subset_1\ (k1_funct_7\ X0\ X1)\ X1 \quad (11)$$

Assume the following.

$$c4_realset2 = np_2 \quad (12)$$

Assume the following.

$$\forall X0.\forall X1.k2_tarski\ X0\ X1 = k2_tarski\ X1\ X0 \quad (13)$$

Theorem 1

$$k6_subset_1\ c4_realset2\ (k6_domain_1\ np_2\ (k1_funct_7\ k6_numbers\ np_2)) = k6_domain_1\ np_2\ (k1_funct_7\ np_1\ np_2)$$